

ABSTRACT

The automated cage cleaning system is comprised of a pair of robotic arms, a soil side robot and a clean side robot. The soil side robot is utilized for removing the dirty cage bottoms from a cart, rack, pallet, or fixture, emptying soiled bedding from the cage bottoms, and placing the cage bottoms on a conveyer leading to the tunnel washing equipment. The clean side robot is used to grip the clean cage bottoms, and place the cage bottoms on a cart, rack, pallet, or fixture. Additionally, the present invention comprises an optical arranger robot with vision processing for detecting, and moving skewed cage bottoms to a re-grip station. From the re-grip station, the clean side robot places the cage bottoms on a rack, pallet, fixture, or any other device suitable for holding a plurality of cage bottoms.